

IN THE CLAIMS

Please cancel claims 4, 12-68, 72-74, and 79-80.

Please amend the claims as follows:

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1. (Amended) A position detection system for locating an object including a magnetic field generator, comprising:  
an array of parallel conductors responsive to a magnetic field generated by the magnetic field generator;  
a plurality of receivers each associated with a parallel conductor; and  
a plurality of drivers each coupled with a parallel conductor and configured to drive current through to produce an energizing field used in locating the object.

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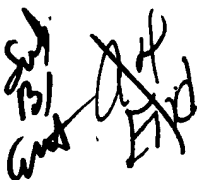
5. (Amended) The system as recited in claim 1, wherein at least one driver is configured to send current through the associated parallel conductor in one direction, and at least one driver is configured to send current through the associated parallel conductor in an opposite direction.

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10. (Amended) The system as recited in claim 1, wherein the magnetic field generator includes a resonator that is energized by the energizing field.

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69. (Amended) A method for detecting position of an object including a resonator, comprising:  
providing an array of parallel conductors responsive to the resonator;  
providing a plurality of receivers;  
associating each receiver with a parallel conductor;

 providing a plurality of drivers; and

· associating each driver with a parallel conductor to drive current through the parallel  
conductor to produce an energizing field used in locating the object.